WHAT IS CLAIMED IS:

the steps of:

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A method of performing transluminal mitral annuloplasty, comprising

providing a catheter, having a prosthesis thereon;

inserting the catheter into the venous system;

transluminally advancing the prosthesis into the coronary sinus; and rotating a component of the prosthesis to cause the prosthesis to exert a

compressive force on the adjacent atrial musculature.

2. A method as in Claim 1, further comprising the step of percutaneously accessing the venous system prior to the transluminally advancing step.

- 3. A method as in Claim 2, wherein the accessing step is accomplished by accessing one of the internal jugular, subclavian and femoral veins.
- 4. A method as in Claim 1, further comprising the steps of first measuring the coronary sinus and then selecting an appropriately sized prosthesis prior to the inserting step.
- 5. A method as in Claim 1, further comprising the step of measuring hemodynamic function following the rotating step.
- 6. A method as in Claim 5, further comprising the step of determining an ongoing drug therapy taking into account the post implantation hemodynamic function.
- 7. A method of providing a therapeutic compressive force against a tissue structure which is adjacent to a vessel wall, comprising the steps of positioning a device in the vessel; rotating at least a part of a forming element within the device to cause the device to exert a force against the wall of the vessel thereby exerting a force against the adjacent tissue structure; and deploying the device within the vessel.
- 8. A method as in Claim 7, wherein the positioning step is accomplished percutaneously.
- 9. A method as in Claim 7, wherein the tissue structure comprises the mitral valve annulus.
- 10. A method as in Claim 7, wherein the tissue structure comprises the left ventricle.
 - 11. A method as in Claim 7, wherein the vessel comprises a vein.

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positioning a prosthesis in the coronary sinus; rotating a first portion of the device with respect to a second portion of the device to cause the device to bend into an arcuate configuration to provide a compressive force on the mitral valve annulus; and securing the device in the arcuate configuration within the coronary sinus.

- 13. A\method as in Claim 12, further comprising the step of percutaneously accessing the venous system prior to the positioning step.
- 14. A method as in Claim 13, wherein the accessing step is accomplished by accessing one of the internal jugular, subclavian and femoral veins.
- 15. A method as in Claim 12, wherein the locking step comprises engaging a first threaded surface with a second threaded surface.
- 16. A method as in Claim 12, wherein the locking step comprises providing an interference fit.
- 17. A method as in Claim 12, wherein the locking step comprises providing an adhesive bond.
- 18. A method as in Claim 12, wherein the locking step comprises providing a knot.
- 19. A method as in Claim 12, wherein the locking step comprises providing a compression fit.
- 20. A method as in Claim 12, further comprising the steps of first measuring the coronary sinus and then selecting an appropriately sized prosthesis prior to the positioning step.
- 21. A method as in Claim 12, further comprising the step of measuring hemodynamic function following the rotating step.
- 22. A method as in Claim 21, further comprising the step of determining an ongoing drug therapy taking into account the post implantation hemodynamic function.